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**SECRET**

COR-0768-60  
15 February 1960  
Copy 2 of 3

Dear Morgan:

Reference is made to your letter of 2 February 1960 requesting approval of Amendment No. 6 to the Boston subcontract.

Please be advised that the above Amendment is approved. However, I would appreciate receiving a copy of Amendment No. 5 for approval and our files.

Sincerely,

Dan

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DPD-DD/ [redacted] mw (15-2-60)  
Distribution:  
Orig - [redacted] (LMSD)  
2 - RT-100, Sub Folder (LMSD-ITEK)  
w/Amd #6  
3 - Chrono

**SECRET**

CLASSIFICATION

**THIS DOCUMENT REQUIRES SPECIAL HANDLING**HANDLING PROCEDURES

THIS DOCUMENT CONTAINS INFORMATION REGARDING A HIGHLY CLASSIFIED ACTIVITY. PERMISSION TO TRANSFER CUSTODY, OR PERMIT ACCESS TO THIS DOCUMENT MUST BE OBTAINED FROM THE ORIGINATOR. HAND CARRY PROCEDURES WILL BE APPLIED TO ANY INTER-OFFICE OR INTRA-AGENCY MOVEMENT OF THIS DOCUMENT.

This document contains information  
referring to Project **CORONA**

REFERRED TO	RECEIVED			RELEASED		SEEN BY	
OFFICE	SIGNATURE	DATE	TIME	DATE	TIME	NAME AND OFFICE SYMBOL	DATE
CONTRACTS/DDP							

CLASSIFICATION

25X1

COR-0766-60  
COPY 1 OF 1

February 2, 1960

25X1

Enclosed please find for your files, one copy of Amendment number 6 to our subcontract 100-9 to Boston. You will note this amendment includes the costs of the test program and reconditioning of the instruments, and brings the contract into a complete state of currency. Please notify us of your concurrence to this amendment.

Very truly yours,

25X1

Enc:  
cc:

MMc:as

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Feb 12 1 28 PM '60

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SUBCONTRACT 100-9AMENDMENT NUMBER 6

DATE: 18 JANUARY 1960

Pursuant to Article 3 CHANGES, hereof, this amendment is issued to revise the total Estimated Costs and Fixed Fee as agreed to in recent negotiations. This revision to the Estimated Costs and Fixed Fee establishes the contractual amount for the performance of additional work authorized by the Sheppard Committee on 21 August 1959, 14 October 1959, and 30 November 1959, and additional work as noted below:

Incorporate the following changes:

WORK STATEMENT

Add the following: Subcontractor shall perform tests in accordance with the direction of the Sheppard Committee as defined in the meetings of that Committee on 21 August 1959, 14 October 1959, and 30 November 1959. Such tests shall include but not be limited to the following:

1. Environmental Test of Drive Motor and Lubricant.
2. Complete Package Test at Simulated Altitude.
3. Altitude Tests of HYAC Camera.
4. Trip Report to Eastman Kodak concerning Film Test.
5. Misalignment Test, Camera to Cassette.
6. Mechanically Induced Failure Test.
7. Film Shrinkage at Altitude.
8. Vapor Pressure Tests of Anderol X 1101 Lubricant and 1188 Film.
9. Film Supply and Flexibility at Altitude.
10. Rapid Decompression Test.
11. Inland Torque Motor Test.
12. Reports of Visits re Lubricants at Altitude.
13. Investigation of Loss of Film Tension at Altitude.

14. Film Tension Control Circuit.
15. Further Investigation of Rubber Expansion.
16. Camera Altitude Test (Ambient Pressure  $10^{-5}$  MM/HG or lower)  
System test during period 27 August 1959 to 20 November 1959  
in the AVCO Test Chamber.
17. Dynamic Tensile Strength.
18. Shock.
19. Static Tensile Strength.
20. Brittleness.
21. Tear Resistance.
22. Shrinkage.
23. Moisture Dynamics.
24. Sensitometry and Resolution.
25. Pressure Marking.
26. Dry Spool.
27. Clutch and Brake Properties at Altitude.

A Series of tests will be conducted on the scan clutch to evaluate performance of the clutch and friction material at low atmospheric pressure. The tests will be instrumented to measure temperature rise in electro-magnetic coil and low pressure tests will be conducted through the range of probable voltages.

28. Requalification testing in shock and vibration.
29. Camera Deformation Testing.
30. Cassette Testing.

One (1) reproducible and three (3) copies of the test reports covering the tests conducted shall be forwarded to LMSD.

Subcontractor shall conduct a program of analysis to review System Mating Procedures and Interface problems to determine whether such procedures and problems are contributing to instrument failure. Analysis shall be made into the following areas:

1. Altitude Sensitivity.

2. Voltage Variation.
3. Misalignment Limits.
4. Alignment Procedures.
5. C System Combination Minimum Temperature Limits.

Results of these analyses will be presented to LMSD for incorporation into LMSD's total system analysis.

Subcontractor shall recondition six (6) units of Item 7, serial numbers 3, 5, 11, 12, 13, and 14, as deemed necessary by the results of the above noted test program.

Under DELIVERY

Item 9, add 25 ea - 30 November 1959

Under FUNDS AUTHORIZED - delete in entirety. In lieu thereof insert the following:

ESTIMATED COST AND FIXED FEE

The estimated cost and fixed fee for complete performance of this subcontract are as follows:

Estimated Cost	\$5,087,195.00
Fixed Fee	<u>211,817.00</u>
Total Estimated Cost and Fixed Fee	\$5,299,012.00

ALLOTMENT OF FUNDS

- A. Funds are allotted to this subcontract and are available for expenditures and commitments in the amount of \$4,800,556.00.
- B. It is estimated that the funds allotted above will cover subcontractor's allowable cost and fixed fee through 30 December 1959.

SPECIAL PROVISION FOR INCREMENTAL FUNDING

The following article shall apply in lieu of Article 4 (Limitation of Allowable Costs) until the total estimated cost and total fixed fee

specified above are allotted to this subcontract, at which time this article shall become inapplicable and Article 4 shall become applicable:

a) It is estimated that the total cost to Lockheed, inclusive of any fixed fee, for the performance of this subcontract will not exceed the estimated cost and fixed fee set forth above, and Subcontractor agrees to use its best efforts to perform the work specified herein and all obligations under this subcontract within such estimated cost. The fixed fee for complete performance of this subcontract is specified in Paragraph entitled ESTIMATED COST AND FIXED FEE above.

b) The sum presently available for payment and allotted to this subcontract, the items covered thereby and the period of performance which it is estimated the allotted amount will cover, are specified in Paragraph entitled ALLOTMENT OF FUNDS above. It is anticipated that from time to time additional funds will be allotted to this subcontract up to the full estimated cost, including any fixed fee. When additional funds are allotted from time to time for continued performance of the work, the parties shall agree as to the applicable estimated period of contract performance which shall be covered by such funds and the subcontract schedule amended accordingly. Subcontractor agrees to perform or have performed work on this subcontract up to the point at which, in the event of termination of this subcontract pursuant to Paragraph a. (iii) of Article 14 (Termination), the total amount paid and payable by Lockheed pursuant to any settlement including cost and fixed fee under Paragraph (e) of such article would, in the exercise of reasonable judgment by Subcontractor, approximate the total amount at the time allotted to this subcontract. Subcontractor shall not be obligated to continue performance of the work beyond such point.

c) Lockheed shall not be obligated to reimburse Subcontractor for costs incurred (including amounts payable in respect to lower tier subcontracts and termination settlement costs) and to pay any fixed fee to which Subcontractor may be entitled, in excess of the total amount from time to time allotted to this subcontract. However, when and to the extent that the total amount allotted to this subcontract has been increased, any costs incurred by Subcontractor and any fixed fee to which Subcontractor may be entitled, prior to the increase and in excess of the amount previously allotted, shall be allowable to the same extent as if such costs had been incurred and fee earned after such increase in amount allotted.

d) In the event funds allotted are considered by Subcontractor to be inadequate to cover the work to be performed for the period set forth in above, Subcontractor shall notify Lockheed in writing when within the next thirty (30) days the work will reach a point, at which, in the event of termination of this subcontract pursuant to Paragraph a. (iii) of Article 14 (Termination), the total amount paid and payable by Lockheed pursuant to a settlement including cost and fixed fee under Paragraph (e) of such article will approximate eighty-five percent (85%) of the total amount then allotted to this subcontract. The notice shall state the

estimated date when such point will be reached and estimated amount of additional funds required to continue performance for the period set forth above. Subcontractor shall, thirty (30) days prior to the end of the period specified above, advise Lockheed in writing as to the estimated amount of additional funds which will be required, on the basis of the obligation for performance in accordance with Paragraph (b) of this article, for the timely performance of the work under this subcontract for such further period as may be specified above or otherwise agreed to by the parties. If, after such notification, additional funds are not allotted by the end of the period set forth above, or an agreed date in substitution therefor, Lockheed will, upon written request of Subcontractor, terminate this subcontract on such date, or on a date to be specified in such request, on which Subcontractor, in the exercise of his reasonable judgment estimates that he will have discharged his obligation to perform hereunder in accordance with Paragraph (b) of this article, whichever is later, pursuant to the provisions of the article of this contract entitled "Termination".

e) When additional funds are allotted from time to time for continued performance of the work under this subcontract, the parties shall agree as to the applicable period of contract performance which shall be covered by such funds, and the provisions of Paragraphs (b), (c), and (d) of this article shall apply in like manner to such additional allotted funds and substituted date pertaining thereto, and this subcontract shall be amended accordingly.

f) Lockheed may at any time prior to termination allot additional funds for this subcontract, and, with the consent of Subcontractor, after notice of termination, may rescind such termination in whole or in part, and allot additional funds for this subcontract.

g) In the event that sufficient amounts are not allotted to this subcontract to allow completion of the work contemplated by this subcontract, Subcontractor shall be entitled, subject to the limitations of Paragraph (c) of this article, to a percentage of the fixed fee set forth above equivalent to the percentage of completion of the work contemplated by this subcontract.

h) Nothing in this article shall affect the right of Lockheed to terminate this subcontract pursuant to Article 14 (Termination).

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 6 to Subcontract No. 100-9 as of the day and year first above written. Except as amended above, all terms and conditions contained therein remain unchanged.

ITEK CORPORATION

LOCKHEED AIRCRAFT CORPORATION  
MISSILES AND SPACE DIVISION

By \_\_\_\_\_

Title Vice President & Gen. Mgr.

Date Jan 27, 1960

\_\_\_\_\_  
Supervisor

Title Satellite Systems Procurement

Date Jan. 19, 1960